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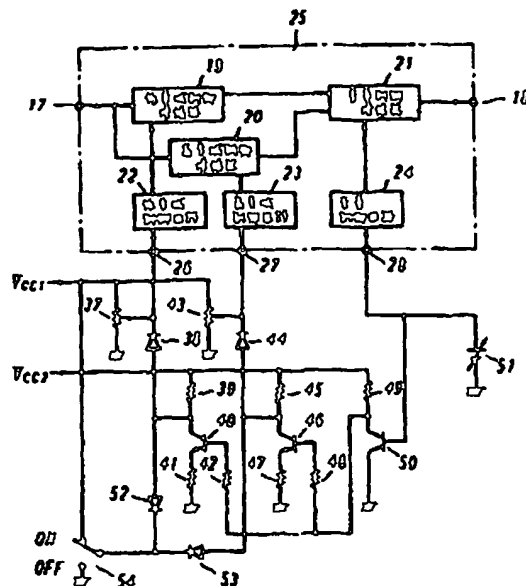
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APPLICANT : HITACHI LTD;

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TITLE : SOUND QUALITY AND SOUND  
VOLUME CONTROLLING SYSTEM OF  
SOUND APPARATUS



ABSTRACT : PURPOSE: To make loudness control by appropriate and stable correction characteristics by providing emitter grounding amplifier circuits for low frequency range and high frequency range and a diode that applies the output of to a sound quality controlling circuit.

CONSTITUTION: Sound volume controlling voltage set in a sound volume controlling voltage source 51 is applied to an input terminal 28, and at the same time, supplied to a transistor TR50. Sound volume controlling voltage from the TR50 is amplified to opposite phase by TRs 40, 46 that form emitter amplifier circuits for low frequency range and high frequency range respectively. Accordingly, when the sound volume controlling voltage is lowered by setting of the voltage source 51, the collector voltage of TRs 40, 46 rises. When the collector voltage of TR40 goes up and the pole of voltage applied to a diode 38 becomes normal direction, the low frequency range controlling voltage impressed to an input terminal 26 goes up, and the low frequency range of sound signals is augmented. Similarly, the high frequency range of sound signals is augmented by rise of collector voltage of TR46. Thus, the loudness control can be performed by appropriate and stable correction characteristics.

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